

WHAT IS CLAIMED IS:

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1. A cell culture medium comprising at least one non-animal or plant-derived peptide, with the proviso that said peptide is not derived from wheat, wherein said medium is capable of supporting the cultivation of an animal cell *in vitro*.

2. A cell culture medium comprising at least one non-animal derived or plant-derived lipid or at least one non-animal or plant-derived fatty acid, wherein said medium is capable of supporting the cultivation of an animal cell *in vitro*.

3. The cell culture medium of claim 1, wherein said medium further comprises at least one non-animal or plant-derived lipid or at least one non-animal or plant-derived fatty acid.

4. The cell culture medium of claim 1, said medium further comprising at least one ingredient selected from the group of ingredients consisting of at least one amino acid, at least one vitamin, at least one inorganic salt, at least one trace element, at least one plant lipid or fatty acid, adenine sulfate, ATP, deoxyribose, ethanolamine, D-glucose, glutathione, N-[2-hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] (HEPES), hypoxanthine, linoleic acid, lipoic acid, insulin, phenol red, phosphoethanolamine, putrescine, sodium pyruvate, thymidine, uracil and xanthine.

5. The cell culture medium of claim 2, said medium further comprising at least one ingredient selected from the group of ingredients consisting of at least one amino acid, at least one vitamin, at least one inorganic salt, at least one trace element, at least one plant lipid or fatty acid, adenine sulfate, ATP, deoxyribose, ethanolamine, D-glucose, glutathione, N-[2-hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] (HEPES), hypoxanthine, linoleic acid, lipoic acid, insulin, phenol red, phosphoethanolamine, putrescine, sodium pyruvate, thymidine, uracil and xanthine.

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6. A cell culture medium obtained by combining at least one non-animal or plant-derived peptide together with an animal cell culture medium, with the proviso that said plant-derived peptide is not derived from wheat, wherein said medium is capable of supporting the cultivation of an animal cell *in vitro*.

7. A cell culture medium obtained by combining at least one non-animal or plant-derived lipid or at least one non-animal or plant-derived fatty acid together with an animal cell culture medium, wherein said medium is capable of supporting the cultivation of an animal cell *in vitro*.

8. The cell culture medium of claim 2, wherein said lipid or fatty acid is selected from the group consisting of palmitate, stearate, oleate, linoleate, linolenate, arachidate, myristate, behenate, erucate, lignocerate, caprylate, caprate, laurate and palmitoleate, and combinations thereof.

9. The cell culture medium of claim 7, wherein said lipid or fatty acid is selected from the group consisting of palmitate, stearate, oleate, linoleate, linolenate, arachidate, myristate, behenate, erucate, lignocerate, caprylate, caprate, laurate and palmitoleate, and combinations thereof.

10. The cell culture medium of any one of claims 2 and 7, wherein said lipid is a sterol.

11. The cell culture medium of claim 10, wherein said sterol is selected from the group consisting of brassicasterol, campesterol, desmosterol, ergosterol, fucosterol, lanosterol, stigmastanol, sitosterol, stigmasterol and stigmasterol acetate.

12. The cell culture medium of claim 1, wherein said animal cell is selected from the group of animal cells consisting of an insect cell, an avian cell, a mammalian cell and a fish cell.

13. The cell culture medium of claim 2, wherein said animal cell is selected from the group of animal cells consisting of an insect cell, an avian cell, a mammalian cell and a fish cell.

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14. A method of cultivating an animal cell comprising the steps of
(a) contacting said animal cell with the cell culture medium of claim 1; and
(b) cultivating said animal cell under conditions suitable to support cultivation of
said animal cell.

15. A method of cultivating an animal cell comprising the steps of
(a) contacting said animal cell with the cell culture medium of claim 6; and
(b) cultivating said animal cell under conditions suitable to support cultivation of
said animal cell.

16. A method of cultivating an animal cell comprising the steps of
(a) contacting said animal cell with the cell culture medium of claim 2; and
(b) cultivating said animal cell under conditions suitable to support cultivation of
said animal cell.

17. A method of cultivating an animal cell comprising the steps of
(a) contacting said animal cell with the cell culture medium of claim 7; and
(b) cultivating said animal cell under conditions suitable to support cultivation of
said animal cell.

18. A composition comprising the cell culture medium of claim 1 and one or more animal
cells.

19. A composition comprising the cell culture medium of claim 6 and one or more animal
cells.

20. A composition comprising the cell culture medium of claim 2 and one or more animal
cells.

21. A composition comprising the cell culture medium of claim 7 and one or more animal cells.

22. A method of producing a cell culture medium in which at least one animal-derived component of said cell culture medium is replaced with non-animal-derived components, comprising combining a basal cell culture medium which comprises no animal-derived components with at least one non-animal or plant-derived peptide, wherein each ingredient is present in an amount which supports the cultivation of an animal cell *in vitro*.

23. A method of producing a cell culture medium in which at least one animal-derived component of said cell culture medium is replaced with non-animal-derived components, comprising combining a basal cell culture medium which comprises no animal-derived components with at least one non-animal or plant-derived lipid or at least one non-animal or plant-derived fatty acid or a combination thereof, wherein each ingredient is present in an amount which supports the cultivation of an animal cell *in vitro*.

24. A cell culture medium produced according to the method of claim 22.

25. A cell culture medium produced according to the method of claim 23.

ent B4 26. A kit for replacing one or more animal-derived ingredients in a cell culture medium, comprising at least one non-animal or plant-derived peptide, lipid, fatty acid, or combinations thereof.

27. The cell culture medium of claim 1, wherein the non-animal or plant-derived peptide is derived from any one of bacteria, fungi, yeast, rice, soy, potato, corn and aloe vera.

28. The cell culture medium of claim 2, wherein the non-animal or plant-derived lipid or fatty acid is derived from any one of bacteria, fungi, yeast, rice, soy, potato, corn and aloe vera.